

PROJECT		<b>GEOGRAPHIC COORDINATES FROM U.T.M. GRID COORDINATES</b> For use of this form, see FM 3-34.331; the proponent agency is TRADOC.							
LOCATION		ORGANIZATION							
ELLIPSOID		CENTRAL MERIDIAN		ZONE	UNIT		FE		
STATION		CM	ELLIPSOID	ZONE	STATION		CM	ELLIPSOID	ZONE
N			E		N			E	
N'			E'		N'			E'	
φ'			IX		φ'			IX	
VII			q		VII			q	
q <sup>2</sup>			X		q <sup>2</sup>			X	
VIII			q <sup>3</sup>		VIII			q <sup>3</sup>	
q <sup>4</sup>			E <sub>5</sub>		q <sup>4</sup>			E <sub>5</sub>	
D <sub>6</sub>			q <sup>5</sup>		D <sub>6</sub>			q <sup>5</sup>	
q <sup>6</sup>			Δλ"		q <sup>6</sup>			Δλ"	
Δφ"			Δλ		Δφ"			Δλ	
φ			λ		φ			λ	
STATION		CM	ELLIPSOID	ZONE	STATION		CM	ELLIPSOID	ZONE
N			E		N			E	
N'			E'		N'			E'	
φ'			IX		φ'			IX	
VII			q		VII			q	
q <sup>2</sup>			X		q <sup>2</sup>			X	
VIII			q <sup>3</sup>		VIII			q <sup>3</sup>	
q <sup>4</sup>			E <sub>5</sub>		q <sup>4</sup>			E <sub>5</sub>	
D <sub>6</sub>			q <sup>5</sup>		D <sub>6</sub>			q <sup>5</sup>	
q <sup>6</sup>			Δλ"		q <sup>6</sup>			Δλ"	
Δφ"			Δλ		Δφ"			Δλ	
φ			λ		φ			λ	
<p>N' = N in NORTHERN HEMISPHERE</p> <p>N' = 10,000,000.000 - N in SOUTHERN HEMISPHERE</p> <p>E' = E - FE or FE - E      q = 0.000001 *  E' </p> <p>Δφ" = (VII) q<sup>2</sup> - (VIII) q<sup>4</sup> + (D<sub>6</sub>) q<sup>6</sup>      φ' = φ' - Δφ</p> <p>Δλ" = (IX) q - (X) q<sup>3</sup> + (E<sub>5</sub>) q<sup>5</sup>      λ = CM + λ or CM - λ</p>									
COMPUTED BY				DATE (YYYYMMDD)		CHECKED BY		DATE (YYYYMMDD)	